



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Ave, NW
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date October 17, 2016	EPA Reg. No./File Symbol 74655-	Page 1 of 4
Applicant's/Registrant's Name & Address: Solenis LLC, 500 Hercules Road, Wilmington, DE 19808	Product BIOSPERSE™ CX3400	

Ingredient(s): Ammonium sulfate (005601)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT CHEMISTRY					
830.1550	Product Identity and Composition	500336-01	Solenis LLC	OWN	See Footnote 1
830.1600	Description of the Materials Used to Produce the Product	500336-01	Solenis LLC	OWN	See Footnote 1
830.1620	Description of the Production Process	500336-01	Solenis LLC	OWN	See Footnote 1
830.1650	Description of the Formulation Process	500336-01	Solenis LLC	OWN	See Footnote 1
830.1670	Discussion of Formation of Impurities	500336-01	Solenis LLC	OWN	See Footnote 1
830.1700	Preliminary Analysis	500336-02	Solenis LLC	OWN	See Footnote 2
830.1750	Certification of Limits	500336-01	Solenis LLC	OWN	See Footnote 1
830.1800	Analytical Method	500336-01	Solenis LLC	OWN	See Footnote 1
830.1900	Submittal of Samples	Upon Request	-----	-----	See Footnote 3
830.6302	Color	500336-03 500336-04	Solenis LLC	OWN	See Footnote 4
830.6303	Physical State	500336-03 500336-04	Solenis LLC	OWN	See Footnote 4
830.6304	Odor	500336-03 500336-04	Solenis LLC	OWN	See Footnote 4
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	500336-03	Solenis LLC	OWN	See Footnote 4
830.6314	Oxidizing/reducing activity	500336-03	Solenis LLC	OWN	See Footnote 4
830.6315	Flammability	500336-03	Solenis LLC	OWN	See Footnote 4
830.6316	Explosibility	500336-03	Solenis LLC	OWN	See Footnote 4
830.6317	Storage Stability	500336-03 500336-04	Solenis LLC	OWN	See Footnote 4
830.6319	Miscibility	Not Applicable	-----	-----	See Footnote 5
830.6320	Corrosion Characteristics	500336-03 500336-04	Solenis LLC	OWN	See Footnote 4
830.6321	Dielectric Breakdown Voltage	Not Applicable	-----	-----	See Footnote 6
830.7000	pH	500336-03 500336-04	Solenis LLC	OWN	See Footnote 4
830.7050	UV/Visible Light Absorption	500336-03	Solenis LLC	OWN	See Footnote 7
830.7100	Viscosity	500336-03 500336-04	Solenis LLC	OWN	See Footnote 4
830.7200	Melting Point	500336-03	Solenis LLC	OWN	See Footnote 4

Christina M. Swick	Name and Title: Christina Swick, Agent for Solenis LLC	Date October 17, 2016
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Applicant's/Registrant's Name & Address: Solenis LLC, 500 Hercules Road, Wilmington, DE 19808	Product BIOSPERSE™ CX3400				
Ingredient(s): Ammonium sulfate (005601)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

PRODUCT CHEMISTRY (cont.)

830.7220	Boiling Point	Not Applicable	-----	-----	See Footnote 8
830.7300	Density	500336-03 500336-04	Solenis LLC	OWN	See Footnote 4
830.7370	Dissociation Constant	500336-03	Solenis LLC	OWN	See Footnote 4
830.7200	Particle Size	Not Applicable	-----	-----	See Footnote 9
830.7550	Partition Coefficient	Not Applicable	-----	-----	See Footnote 10
830.7840	Water Solubility	500336-03	Solenis LLC	OWN	See Footnote 4
830.7950	Vapor Pressure	500336-03	-----	-----	See Footnote 4
TOXICOLOGY					
870.1100	Acute Oral Toxicity	500336-05	Solenis LLC	OWN	See Footnote 11
870.1200	Acute Dermal Toxicity	500336-05	Solenis LLC	OWN	See Footnote 11
870.1300	Acute Inhalation Toxicity	500336-05	Solenis LLC	OWN	See Footnote 11
870.2400	Acute Eye Irritation	500336-05	Solenis LLC	OWN	See Footnote 11
870.2500	Acute Dermal Irritation	500336-05	Solenis LLC	OWN	See Footnote 11
870.2600	Skin Sensitization	500336-05	Solenis LLC	OWN	See Footnote 11
870.3100	Sub-chronic oral (rodent)	500336-05 488656-03	Solenis LLC None	OWN PL	See Footnote 11
870.3150	Sub-chronic oral (nonrodent)	Waiver Request	-----	-----	See Footnote 11
870.3250	Subchronic Dermal Toxicity, 90-Day	Waiver Request	-----	-----	See Footnote 11
870.3465	Subchronic Inhalation Toxicity, 28-Day	500336-05 488834-01	Solenis LLC None	OWN PL	See Footnote 11
870.3700	Prenatal Development Toxicity – (2 species)	500336-05 488656-08 488656-01	Solenis LLC None None	OWN PL PL	See Footnote 11
870.3800	Reproduction and Fertility Effects	500336-05 488656-07 488656-02	Solenis LLC None None	OWN PL PL	See Footnote 11
870.4100	Chronic oral – rodent	500336-05 488834-01	Solenis LLC None	OWN PL	See Footnote 11
870.4200	Carcinogenicity (rat & mouse)	500336-05 488834-01	Solenis LLC None	OWN PL	See Footnote 11

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Applicant's/Registrant's Name & Address: Solenis LLC, 500 Hercules Road, Wilmington, DE 19808	Product BIOSPERSE™ CX3400	

Ingredient(s): Ammonium sulfate (005601)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5100	Reverse Gene Mutation (bacteria)	500336-05	Solenis LLC	OWN	See Footnote 11
870.5300/5375	<i>In-vitro</i> Gene Mutation (mammalian)	500336-05	Solenis LLC	OWN	See Footnote 11
870.5380/5385/5395	<i>In-vivo</i> cytogenetics	500336-05	Solenis LLC	OWN	See Footnote 11
870.7485	Metabolism and Pharmacokinetics	500336-05	Solenis LLC	OWN	See Footnote 11
870.7800	Immunotoxicity	Waiver Request	-----	PL	See Footnote 11

NON-TARGET ORGANISMS

850.2100	Acute Avian Oral Toxicity: Bobwhite Quail or Mallard Duck	46440501	Buckman Laboratories Inc	PAY	See Footnote 12
850.1075	Freshwater Fish Toxicity: Bluegill Sunfish	46435105 44721312	Buckman Laboratories Inc ICL-IP AMERICA, INC.	PAY OLD	See Footnote 12
850.1075	Freshwater Fish Toxicity: Rainbow Trout	46435106 44721313	Buckman Laboratories Inc ICL-IP AMERICA, INC.	PAY OLD	See Footnote 12
850.1010	Acute Toxicity to Freshwater Invertebrates	46435107 44721314	Buckman Laboratories Inc ICL-IP AMERICA, INC.	PAY OLD	See Footnote 12
850.1400	Fish Early-Life Stage	Waiver Request	-----	-----	See Footnote 12
850.1300	Aquatic Invertebrate Life-Cycle	Waiver Request	-----	-----	See Footnote 12
850.4100	Seedling Emergence	Waiver Request	-----	-----	See Footnote 12
850.4150	Vegetative Vigor	Waiver Request	-----	-----	See Footnote 12
850.4400	Aquatic Plant Toxicity (Lemna)	Waiver Request	-----	-----	See Footnote 12
850.4500	Algal Toxicity	Waiver Request	-----	-----	See Footnote 12
850.4550	Cyanobacteria toxicity	Waiver Request	-----	-----	See Footnote 12

ENVIRONMENTAL FATE

835.2120	Hydrolysis	Waiver Request	-----	-----	See Footnote 12
835.2240	Photodegradation in Water	Waiver Request	-----	-----	See Footnote 12
835.1110	Activated Sludge Sorption Isotherm	Waiver Request	-----	-----	See Footnote 12
834.1230	Leaching and adsorption/desorption	Waiver Request	-----	-----	See Footnote 12
835.3110	Ready Biodegradability	Waiver Request	-----	-----	See Footnote 12
835.4300	Aerobic Aquatic Metabolism	Waiver Request	-----	-----	See Footnote 12
835.4400	Anaerobic Aquatic Metabolism	Waiver Request	-----	-----	See Footnote 12

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Ingredient(s): Ammonium sulfate (005601)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.6800	Modified Activated Sludge, Respiration Inhibition Test	Waiver Request	-----	-----	See Footnote 12

OCCUPATIONAL AND RESIDENTIAL EXPOSURE

875.1200	Dermal Exposure – Indoor	Waiver Request	-----	-----	See Footnote 13
875.1400	Inhalation Exposure – Indoor	Waiver Request	-----	-----	See Footnote 13
875.1700	Product Use Information	Product Label			
875.2400	Dermal Exposure	Waiver Request	-----	-----	See Footnote 13
875.2500	Inhalation Exposure	Waiver Request	-----	-----	See Footnote 13

RESIDUE CHEMISTRY

860.1100	Chemical Identity	-----	-----	-----	See Footnote 14
860.1200	Directions for Use	-----	-----	-----	See Footnote 15
860.1550	Proposed Tolerance	Not Applicable	-----	-----	See Footnote 16
860.1650	Submittal of Analytical Reference Standard	Not Applicable	-----	-----	See Footnote 17
860.1380	Storage Stability	Not Applicable	-----	-----	See Footnote 18

FOOTNOTES:

1. This information is presented in Volume 1 of the data package.
2. Preliminary analysis data for technical ammonium sulfate (Certificates of Analysis) is in Volume 1 of the data package and preliminary analysis data for the end-use product, Biosperse CX3400 is in Volume 2.
3. Samples of Biosperse CX3400 will be submitted upon request.
4. Physical-chemical property data is presented in Volume 3 and 4 of the data package.
5. The miscibility data requirement is not applicable since Biosperse CX3400 is not diluted with petroleum solvents.
6. The dielectric breakdown voltage data requirement is not applicable since Biosperse CX3400 is not used around electrical equipment.
7. UV/visible absorption is not applicable since ammonium sulfate does not absorb in the uv/visible range.
8. The boiling data requirement is not applicable since the TGAI is a solid at ambient temperature.
9. The particle size data requirement is not applicable since the TGAI is highly soluble in water.
10. The partition coefficient data requirement is not applicable since the TGAI is an inorganic compound.
11. The toxicology data requirements for ammonium sulfate and Biosperse CX3400 are discussed in Volume 5 (MRID 500336-05).
12. The environmental fate and specified non-target organism studies for ammonium sulfate are discussed in Volume 6 (MRID 500336-06).
13. The occupation exposure data waivers for ammonium sulfate are presented in Volume 7 (MRID 500336-07).
14. Chemical identity information for the potential food-contact surface residue (monochloramine) has been presented in the Agency's reviews for ammonium sulfate.

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Ingredient(s): Ammonium sulfate (005601)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

15. The "Directions for Use" are provided on the attached product label for the formulated product (Biosperse CX3400) containing ammonium sulfate.
16. A tolerance is not required for the potential food-contact residue (monochloramine) since FDA and EPA had previously determined that this substance will not become part of food.
17. Since monochloramine will not become part of food, submission of an analytical reference standard is not necessary.
18. A storage stability study for the potential food residue (monochloramine) is not applicable since no residue studies are being required.

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